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TITLE: TASK SCHEDULING SYSTEM
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ABSTRACT:

PURPOSE: To set the execution order of the tasks of a multi-task program constant by deciding the task to be executed next in the order of task numbers for respective tasks which belong to semaphores and which are in a waiting state when all the tasks are detected to be in the waiting state.

CONSTITUTION: A task generation means 2 generates the tasks based on the task generation request of the multi-task program 1 and starts a task order number allocation means 3. A transfer control means 5 compares the task number which follows a lock semaphore as against the command of a lock means 4 and which is to be transferred next with the task number which issues a lock request, and sets the task to be in a lock state when they coincide. When they

do not coincide, a waiting state transfer means 6 sets the task to be in the waiting state. When a whole tasks waiting state detection means 7 detects that all the tasks are transferred to the waiting state, the task to be executed next is decided in the order of the task numbers for respective tasks in the waiting state and execution is started. Thus, the tasks are always in the same execution order.

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